•		
	management of the second of th	25 Y 1
Declassified in Part - Sanitize	ed Copy Approved for Release 2012/10/24 : CIA-RDI	P79B00873A001800020001-3
	No. at 1 to 1	

D R A F T:RDStapleton:kmc 9 June 1971

MEMORANDUM FOR: Deputy Director of Central Intelligence

THROUGH : Executive Director-Comptroller

Director, Office of Planning, Programming

& Budgeting

Assistant Deputy Director for Intelligence

SUBJECT

Request for Approval to Contract for the Design and Fabrication of a Dual Format Data Block Reader with Fairchild Space & Defense Systems Division at a Cost of

rom (FY-1971) R&D Funds

25X1

- 1. This memorandum requests approval for the commitment of R&D funds for a NPIC contract. The specific request is stated in Paragraph strine.
- 2. The National Photographic Interpretation Center, through NSCID #8 and the National Tasking Plan, is charged with providing the most effective, timely, and economic exploitation of photography and remote sensory products.

 The Center is also charged with providing certain additional support to the Intelligence Community, such as updating and maintaining the National Data Base and maintaining

a back-up ephemeric capability. The manual,
October 1970,

25X1 25X1

Page 9 states: "NPIC will maintain a back-up capability to the Mission Performance Report (MPR). In the event the MPR cannot be made available, NPIC will develop ephemeris and frame data based on telemetry tapes provided

from the and actual film

25X1

25X1

peclassified in Part - Sanitized Copy Approved for Release 2012/10/24 : CIA-RDP79B00873A001800020001-3

SUBJECT: Dual Format Data Block Reader

This information will then be made available to all MPR recipients."

While NPIC has been aware of this general backup data requirement for quite some time, a new responsibility has been recently introduced. Latest reports indicate that the MPR, which preceeds each mission, will not carry the time data read out required for data reduction of the Mapping Camera System in the this information is contained only in the binary data block recorded on the film. It will therefore be necessary for NPIC to read the time data from each frame of Stellar/Terrain photography after receipt of the film This information will enable NPIC to: / Tabakar form in the Center. A ccurately update the National Data Banks Provide Center components with accurate data for positioning targets and provide the Mapping Community with the accuracy required in charting and mapping. The main camera system time readout which is included in the MPR will not suffice for the Mapping Camera System since the two systems are separately operated, and it is possible that the conjugate imagery can have as much as 100%, or as little as 0% common coverage between the terrain camera and the

25X1

..... UPILY

SUBJECT: Dual Format Data Block Reader

main panoramic cameras.

the process st Investigation into manually providing this readout has shown that for the 4000 frames of information involved, it may be possible > interpolation, to provide this data within one working week. However, the accuracy advitudinal attitudinal) (time readout to 0.1 millisecond) will con. f the system - Abrough an 🛶 interpolation of the data. tionally, approval has been granted to replace the 3400 type film with ultra thin base film in the fourth S/I package which will increase the frame count from approximately 4000 frames to approximately 7000 frames--virtually an impossible task for manual readout. It is anticipated that Center operations will require, and make the utmost use of this refined accuracy inherent in the Stellar/ Terrain system, as it will furnish target positional information several magnitudes better than current systems. Additionally, the Mapping, Charting and Geodetic (MCG) groups in the Intelligence Community will use the data \forall in their (exploitation (for position refinement.

5. The proposed Dual Format Data Block Reader (DFR)
will provide the capability of rapidly and accurately
reading time data from both the stellar and terrain
camera formats

This electro mechanic device will read the data from both of two predetermined

SUBJECT: Dual Format Data Block Reader

formats on negative or positive film with the film transported at a rate of 12 inches per second. The DFR will locate, read, organize, and place the data on magnetic tape with appropriate recognition patterns to be medical ablocation for processing by the NPIC central computer. The data from the stellar data block will be combined with that from the terrain data block in the NPIC computer and in turn integrated with the existing MPR of the mission. An operator will be able to select a mode of operation, initiate signals, monitor, and exercise controls through the front panel assembly of the DFR.

with limite risk involved due to the fact that the selected contractor has built similar readers for the Center. The first reader was built to handle the KH-4A data while the second will handle the KH-4B and the Stellar/Terrain data

Investigation into modification 25X1 of the second reader to handle revealed that it would be more expensive to modify the existing equipment than to build a new reader specifically for the

7. The contractor has offered NPIC the choice of two period less. Under the first option. He contractor will option for this project. One in which he supplies the

eclassified in	Part - Saniti	zed Copy A	pproved for Rele	ease 2012/10/2	4 : CIA-RDP79	B00873A00180	00020001-3 1		
	SUBJECT	: Dual	Format Data	Block Read	der				
build th	<pre>ereader</pre>	the mag	netic tape	drive and	the printer	Under the	7		
	second	option,w	the cotton	magnetic ta	ape drive a	ind its	moder;		
	electro	nics, an	d the print	er and asso	ociated ele	ectronics			
WOO	be s	upplied :	as GFE. Th	e second op	otion is th	ne mane Mol	r#		
			firf, only becaus			0	25 X 1		
	and s	the equ	ipment can	he supplied	A GFE A STATE	Components	Grom Ha harman		
			systems is				Somplete		
						1.5	systems.		
	SINGA		icipated fo		-	·			
		instrume	nt will han	dle the ans			0574		
	8.				will be t	the Project	; 25 X 1		
	Officer	for thi	s contract.			is	25 X 1		
	appropr	appropriate for this work. Agency association with the							
	project	will be	classified	CONFIDENT	IAL, but th	ne work,			
	project	title a	nd reports	will be UNO	CLASSIFIED.	•			
	9.	It is	requested t	hat approva	al be grant	ted to			
	negotia	te a con	tract with	Fairchild S	Space and I	Defense			
	Systems	for the	design and	fabricatio	on of <u>a Dua</u>	<u>11 Fo</u> rmat			
	Data B1	ock Read	er at a cos	t not to ex	cceed	from	25 X 1		
	<i>1972</i> FY-1 971	2 R&D fun	ds.						

ARTHUR C. LUNDAHL
Director
National Photographic Interpretation Center

SUBJECT: Dual Format Data Block Reader

Attachments:

- 1. Proposal
- 2. Form 2420

CONCUR:

Assistant Deputy Director for Intelligence

Date

APPROVED:

Deputy Director of Central Intelligence

Date

Distribution:

Original - DDCI

- 1 DDCI
- 1 ER
- 1 ADDI
- 1 O/PPB .
- 1 Exec. Dir.-Compt.
- 2 NPIC/ODir
- 1 NPIC/TSG